

input keypads 15. The main enclosure 14 may be molded from a reinforced resin material, for example.

[0033] The receiver 13 has a display enclosure 16 serving as a second enclosure according to the present invention. A flat display panel such as a liquid crystal display (LCD) panel 17 is incorporated within the display enclosure 16. A screen opening 18 is defined in the front flat surface of the display enclosure 16. The screen of the LCD panel 17 is placed within the screen opening 18. Various texts and graphics are displayed on the screen of the LCD panel 17 in response to the operation of the CPU. The display enclosure 16 may be molded from a reinforced resin material, for example.

[0034] The microphone hole 19 is defined in the front flat surface of the main enclosure 14. A microphone is embedded in the microphone hole 19. A speaker hole 21 is defined in the front flat surface of the display enclosure 16. A speaker is embedded in the speaker hole 21. The user of the cellular phone terminal 11 talks to the microphone so as to establish a voice call. The speaker reproduces the voice of the other side.

[0035] The transmitter 12 is coupled to the receiver 13 through a bi-axial swivel mechanism 22. The swivel mechanism 22 realizes the rotation around a horizontal axis 23 between the transmitter 12 and the receiver 13. The horizontal axis 23 is set in parallel with the front flat surface of the main enclosure 14 at the end of the front flat surface of the main enclosure 14. The rotation around the horizontal axis 23 enables superposition of the receiver 13 over the transmitter 12. The phone flip is in this manner closed in the cellular phone terminal 11. The screen of the LCD panel 17 is overlaid on the front flat surface of the main enclosure 14.

[0036] As is apparent from FIG. 2, the swivel mechanism 22 also realizes the rotation around a vertical axis 24 between the transmitter 12 and the receiver 13. The vertical axis 24 is set in parallel with the front flat surface of the display enclosure 16. The vertical axis 24 is allowed to rotate around the horizontal axis 23 in an attitude set perpendicular to the horizontal axis 23. The back surface of the receiver 13 is allowed to face forward through the rotation around the vertical axis 24. When the cellular phone terminal 11 is then folded through the rotation around the horizontal axis 23, the screen of the LCD panel 17 is exposed outward.

[0037] As shown in FIG. 3, the swivel mechanism 22 includes a pair of sockets or bearings 26, 26 according to a first embodiment of the present invention. The bearings 26 are located at coaxial positions distanced from each other. The bearings 26 may be punched out of a metallic plate, for example. The bearings 26 are fixed to the main enclosure 14. Screws, not shown, are employed for fixation of the bearings 26, for example. The screws penetrate through corresponding screw holes 26a for engagement of the tip ends with the main enclosure 14.

[0038] A shaft member 27 is supported on the bearings 26 for relative rotation. The shaft member 27 includes a pair of support shafts 28, 28 respectively supported on the corresponding bearings 26. A support member 29 is located between the support shafts 28, 28 at a position off the longitudinal axis of the shaft member 27. An inside space 31 is defined around the longitudinal axis of the shaft member 27 at a position adjacent to the support member 29. The

support member 29 is coupled with the support shafts 28, 28 based on integral formation. The support member 29 and the support shafts 28, 28 in this manner form the shaft member 27 as a one-piece component. The longitudinal axis of the shaft member 27 corresponds to the aforementioned horizontal axis 23.

[0039] A bracket 32 is coupled to the support member 29 for relative rotation around the aforementioned vertical axis 24. The bracket 32 is coupled to the display enclosure 16. Screws, not shown, are employed to connect the bracket 32 to the display enclosure 16, for example. The screws penetrate through screw holes 32a for engagement of the tip ends with the display enclosure 16.

[0040] A shaft cover or sleeve 33 is located between the bracket 32 and the support member 29. The sleeve 33 is immobilized to the bracket 32. Specifically, when the bracket 32 rotates around the vertical axis 24, the sleeve 33 is forced to rotate around the vertical axis 24 along with the bracket 32.

[0041] As is apparent from FIG. 4, a first hollow space 34 is defined in one of the support shafts 28. The first hollow space 34 is designed to penetrate through the support shaft 28 along the horizontal axis 23. The first hollow space 34 thus penetrates through the corresponding bearing 26. The inner end of the first hollow space 34 opens in the aforementioned inside space 31 of the support member 29. A coaxial cable 35 can thus be guided from the inside space 31 toward the outside of the bearing 26 through the first hollow space 34.

[0042] As shown in FIG. 4, the bracket 32 is attached to a tube 36 for relative rotation around the vertical axis 24. The tube 36 is fixed to the support member 29 in a coaxial relation with the vertical axis 24. A second hollow space 37 is defined in the tube 36. The second hollow space 37 penetrates through the tube 36 in the axial direction of the tube 36. The inner end of the second hollow space 37 opens in the aforementioned inside space 31 of the support member 29. The coaxial cable 35 can thus be guided from the inside space 31 toward the outside of the bracket 32 through the second hollow space 37. The coaxial cable 35 is consequently guided from the bearing 26 to the bracket 32 along the horizontal axis 23 and the longitudinal axis of the tube 36.

[0043] A cam member 38 is mounted on each of the support shafts 28. The cam member 38 is immobilized to the corresponding bearing 26. The cam members 38 are designed to respectively define perpendicular surfaces 38a, 38a opposed to each other. The perpendicular surfaces 38a are defined along parallel reference planes perpendicular to the horizontal axis 23, respectively. The perpendicular surfaces 38a define a groove 39 extending around the horizontal axis 23. The groove 39 has a uniform width.

[0044] A recess 41 is formed on the individual perpendicular surface 38a at a predetermined angular position. The recesses 41, 41 serve to define an enlarged section in the groove 39. The angular position of the recesses 41 may depend on the position of the vertical axis 24 or sleeve 33 established when the receiver 13 is set upright from the transmitter 12, as shown in FIG. 2.

[0045] A restriction cam 42 is formed on the outer periphery of the sleeve 33. The restriction cam 42 is designed to